Ayush Goyal

ayushgoyal.dev | ayushg1214@gmail.com | +91-7738106624

EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY
B.Tech, Information Technology
2019 - 2023 | New Delhi, India
GPA: 9.24 (till 6th semester)

HHF SCHOOL
2019 | New Delhi, India
Class 12th : 92%

DELHI PUBLIC SCHOOL MATHURA ROAD
New Delhi, India
Class 10th CGPA : 10

LINKS

Portfolio:// **ayushgoyal.dev**
GitHub:// **ayush6624**
LinkedIn:// **ayush-goyal6624**
CodeChef:// **ayush6624**

COURSEWORK

UNDERGRADUATE
Data Structures And Algorithms
Object Oriented Programming
Database Management System
Operating System

SKILLS

PROGRAMMING
Languages:
C • C++ • Python • JavaScript
• TypeScript • C#

Web Development:
React • NextJS • HTML • CSS
• NodeJS • MongoDB • Docker

Machine Learning:
Deep Learning • OpenCV
• Tensorflow

Misc:
AWS • Bash

POSITIONS

• Head Web Technology at **IOSD DTU**
• Web Core Team Member at **Google Developer Student Club** DTU

EXPERIENCE

MICROSOFT | Software Engineer Intern
May 2022 – July 2022 | Hyderabad, India
- Integrated the **Policy Enforcement** scenario which will lead to an annual savings opportunity of **$4.5M** and **improve CSAT** ratings.
- Used **C#** to integrate with the **MVS** API and achieved **>80% code coverage** within the given **SLA**.
- Worked with the **USTRL** and **AMC** team to ensure **E2E integration**.

PABIO (YC S21) | JavaScript Engineering Intern
Apr 2021 – Apr 2022 | Switzerland
- Built and maintained the **user-facing website** and **internal platform** using **NextJS** and **TypeScript**; Created **API** endpoints in **NestJS** and **Prisma**.
- Created a **monorepo** using **Rush**, integrating all the packages along with **auto-generated types**, **documentation** and **parallel** builds.
- Built **CI pipelines** and helped in **architecting** and **managing services** running on **AWS** and **GCP**.

TRIPMOKSHA | Software Developer Intern
Jan 2020 – Mar 2020 | New Delhi, India
- Used **Python**, **Flask**, **MongoDB** and **Firebase** to develop **REST APIs**.
- Integrated a payment pipeline using **Stripe** and **Mailgun**.

PROJECTS

MICROSOFT TEAMS CLONE | Code
- **Designed and developed** a fully-featured clone of MS Teams with **agile** methods using **NextJS**, **Prisma**, **Express** and **TypeScript**.
- Supports **video call**, group chat, **OAuth** authentication, **background filters**, toast notifications, detailed **analytics** using **web beacons**.
- Equipped to handle **25+** participants exchanging media via an **SFU** provided by **Twilio**.

VIRTUAL DANCE PARTY | Code
- Used **Javascript** to develop a fun app to host **virtual dance parties** where participants can **dance together** as **animated stickmen**.
- Used **Tensorflow** and **PoseNet** Model to estimate the pose using the camera of the device.
- **Rendered** animated **2D stickmen** using **Two.js** (~25 FPS).
- Used **Spotify SDK** to stream and control **music** in the dance room.

DRONE DELIVERY | Code
- Developed a system to devise a **cost-effective route** for a truck and **multiple drones** to transport packages to a **network** of delivery nodes.
- Used **K-Means** to **cluster** delivery nodes and used **TSP** with **heuristics** to identify the truck routes.
- Implemented **ILP** formulation of **multiple salesman problem** to generate drone routes. Used **JavaScript**, **Google Maps API** to illustrate them.
- **Reduced** compute time by **95%** and **increased** route efficiency by **34%**.